



FOR IMMEDIATE RELEASE

NEWS RELEASE

SPIRE SOLAR EUROPE EXPANDS OFFICE

Response to Increasing Demand for Solar Electricity

Bedford, MA—February 21, 2001—Spire Corporation (NASDAQ:SPIR) today announced the expansion of Spire Solar Europe to support its increased activities in Germany and other European countries. Spire Solar Europe has added technical staff at its headquarters in Schopfheim, Germany to improve support to its European customers as they expand their production capacity for manufacturing solar electric modules.

New orders for Spire's manufacturing equipment have recently been received from a number of German and Portuguese companies. Many European governments are aggressively supporting the use of solar electric systems to provide clean, renewable, solar electric energy to their citizens. Germany is one of the leading markets in the world for Spire's photovoltaic module manufacturing equipment.

Roger Little, President & CEO, said, "We have a large customer base in Europe that we have been servicing for more than 15 years from our office in Schopfheim, Germany. The importance of our activities in the German solar electric market is evidenced by the fact that Spire shares have recently begun trading on the Frankfurt Stock Exchange, allowing European investors to follow our growth more closely."

Spire Corporation

Spire Corporation is the world's leading supplier of solar electric module manufacturing equipment, turnkey production lines, and solar energy businesses with manufacturing equipment installed in 144 factories in 39 countries worldwide.

Visit our web site at www.spireolar.com.

Certain matters discussed in this News Release may be forward-looking statements subject to risks and uncertainties that could cause actual results to differ materially from those indicated in the forward-looking statements. Such risks and uncertainties include, but are not limited to, the risk of dependence on government agencies and other third parties for funding contract research and services, as well as other factors described in the Company's Form 10-KSB filed with the Securities and Exchange Commission.

United States contact

Stephen J. Hogan
Executive VP & General Manager
Spire Corporation
(781) 275-6000
shogan@spirecorp.com

Germany contact:

Jurgen Petersen
General Manager
Spire Solar Europe
Schopfheim, Germany
(+49) 792-26-7550
jp@pps-solar.de